

Eclipse IDE workspace: products/src/products/Products.java

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Products.java

```
1 package products;
2 import java.sql.*;
3 public class Products {
4     public static void main(String[] args) {
5         try {
6             // Step 1: Set up the database connection
7             String url = "jdbc:mysql://localhost/eCommerce";
8             String username = "root";
9             String password = "root";
10            Connection connection = DriverManager.getConnection(url, username,
11 password);
12            // Step 2: Fetch data and count products of similar types
13            countSimilarProducts(connection);
14            // Close the database connection
15            connection.close();
16        } catch (SQLException e) {
17            e.printStackTrace();
18        }
19    }
20    private static void countSimilarProducts(Connection connection) throws
21 SQLException {
22        String countQuery = "SELECT product_type, COUNT(*) AS similar_products_count FROM products GROU
23        Statement statement = connection.createStatement();
24        ResultSet resultSet = statement.executeQuery(countQuery);
25        System.out.println("Product Type | Count");
26        System.out.println("-----");
27        while (resultSet.next()) {
28            String productType = resultSet.getString("product_type");
29            int count = resultSet.getInt("similar_products_count");
30            System.out.println(productType + " | " + count);
31        }
32    }
33 }
```

Outline: products > Products > main(String[]) : void > countSimilarProducts(Connection) : void

Problems Javadoc Declaration Console

<terminated> Products [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Jul 20, 2023, 7:07:55 AM)

Product Type	Count
Type A	3
Type B	2
Type C	3
Type D	2

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